

1 CLAIMS

2 What is claimed is:

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4 Claim 1. A method for treating a patient suffering from
5 a cancerous disease comprising:

6 administering to said patient anti-cancer antibodies or
7 fragments thereof produced in accordance with a method for
8 the production of individually customized anti-cancer
9 antibodies which are useful in treating a cancerous disease,
10 said antibodies including a subset of antibodies or fragments
11 thereof characterized as being cytotoxic against cells of a
12 cancerous tissue, said subset being essentially benign to
13 non-cancerous cells;

14 wherein one or more antibodies or fragments thereof
15 selected from said subset are placed in admixture with a
16 pharmaceutically acceptable adjuvant and are administered in
17 an amount effective to mediate treatment of said cancerous
18 disease.

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20 Claim 2. The method for treating a patient suffering
21 from a cancerous disease in accordance with claim 1, wherein
22 said one or more antibodies or fragments thereof selected
23 from said subset are humanized.

1 Claim 3. The method for treating a patient suffering
2 from a cancerous disease in accordance with claim 1
3 comprising:

4 conjugating said subset of antibodies or fragments
5 thereof with a member selected from the group consisting of
6 toxins, enzymes, radioactive compounds, and hematogenous
7 cells; and

8 administering conjugated antibodies or fragments thereof
9 to said patient;

10 wherein said conjugated antibodies are placed in
11 admixture with a pharmaceutically acceptable adjuvant and are
12 administered in an amount effective to mediate treatment of
13 said cancerous disease.

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15 Claim 4. The method of claim 3, wherein said one or
16 more antibodies or fragments thereof selected from said
17 subset are humanized.

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19 Claim 5. The method for treating a patient suffering
20 from a cancerous disease in accordance with claim 1 wherein:
21 the cytotoxicity of said antibodies or fragments thereof
22 is mediated through antibody dependent cellular toxicity.

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24 Claim 6. The method for treating a patient suffering
25 from a cancerous disease in accordance with claim 1 wherein:

1 the cytotoxicity of said antibodies or fragments thereof
2 is mediated through complement dependent cellular toxicity.
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4 Claim 7. The method for treating a patient suffering
5 from a cancerous disease in accordance with claim 1 wherein:

6 the cytotoxicity of said antibodies or fragments thereof
7 is mediated through catalyzing of the hydrolysis of cellular
8 chemical bonds.
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10 Claim 8. The method for treating a patient suffering
11 from a cancerous disease in accordance with claim 1 wherein:

12 the cytotoxicity of said antibodies or fragments thereof
13 is mediated through producing an immune response against
14 putative cancer antigens residing on tumor cells.
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16 Claim 9. The method for treating a patient suffering
17 from a cancerous disease in accordance with claim 1 wherein:

18 the cytotoxicity of said antibodies or fragments thereof
19 is mediated through targeting of cell membrane proteins to
20 interfere with their function.
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22 Claim 10. The method for treating a patient suffering
23 from a cancerous disease in accordance with claim 1 wherein:

24 the cytotoxicity of said antibodies or fragments thereof
25 is mediated through production of a conformational change in

1 a cellular protein effective to produce a signal to initiate
2 cell-killing.

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4 Claim 11. The method for treating a patient suffering
5 from a cancerous disease in accordance with claim 1 wherein:
6 said method of production utilizes a tissue sample
7 containing cancerous and non-cancerous cells obtained from a
8 particular individual.

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10 Claim 12. The method for treating a patient suffering
11 from a cancerous disease in accordance with claim 1 wherein:
12 the antibodies or fragments thereof are selected from
13 the group consisting of a 3BD-3, a 3BD-6, a 3BD-8, a 3BD-9, a
14 3BD-15, a 3BD-25, a 3BD-26 and a 3BD-27 monoclonal antibody
15 or combinations thereof.

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17 Claim 13. The method for treating a patient suffering
18 from a cancerous disease in accordance with claim 1 wherein:
19 the antibodies or fragment thereof are produced by one
20 or more hybridoma cell lines having an ATCC Accession Number
21 selected from the group consisting of ().

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23 Claim 14. The method for treating a patient suffering
24 from a cancerous disease in accordance with claim 1 wherein:
25 the antibodies or fragments thereof are selected from
26 the group consisting of a 1LN-1, a 1LN-12, a 1LN-14, a 2LN-

1 21, a 2LN-28, a 2LN-29, a 2LN-31, a 2LN-33, a 2LN-34 and a
2 2LN-35 monoclonal antibody or combinations thereof.

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4 Claim 15. The method for treating a patient suffering
5 from a cancerous disease in accordance with claim 1 wherein:

6 the antibodies or fragments thereof are produced by one
7 or more hybridoma cell lines having an ATCC Accession Number
8 selected from the group consisting of ().

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